

Session 9: Energy Security and Clean Energy Policies

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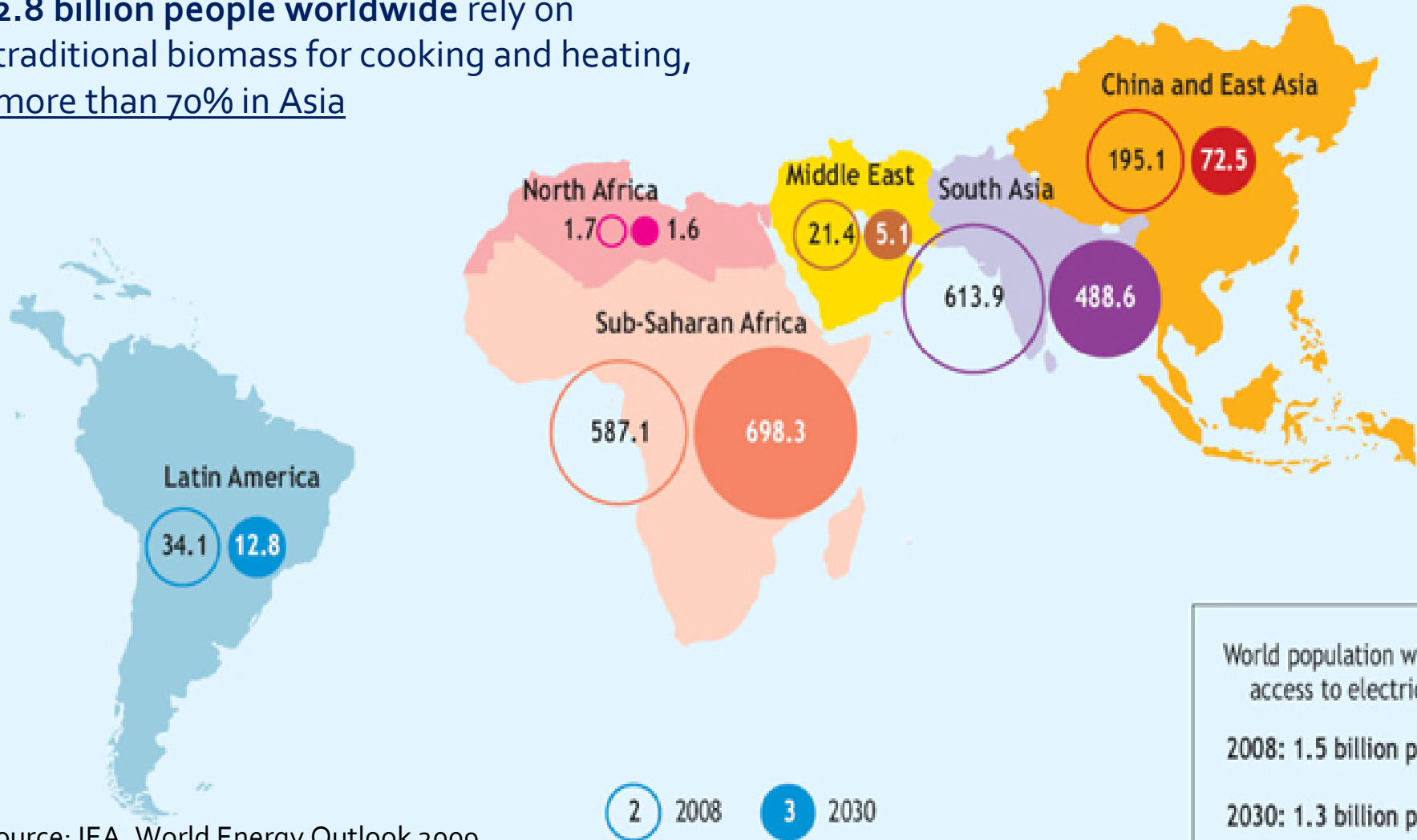
3 November 2010



Energy poverty persists in Asia

1.5 billion people worldwide lack access to electricity, about 800 million in Asia

2.8 billion people worldwide rely on traditional biomass for cooking and heating, more than 70% in Asia



World population without access to electricity

2008: 1.5 billion people

2030: 1.3 billion people

Universal access is within our reach

- UN Advisory Group on Energy and Climate Change has called for universal access to energy by 2030
- Role of energy access is clear to meet MDGs
 - Require investment of \$41 billion from 2010 to 2015, or only 0.06% of global GDP
- Require action on the ground – replicate good models and scale them up

ADB's Response: Energy for All

- underpins ADB's **Strategy 2020**
- one of three pillars of ADB's **2009 Energy Policy**
- key component of ADB's clean energy and climate change agenda



Energy for All Initiative: a two-pronged approach

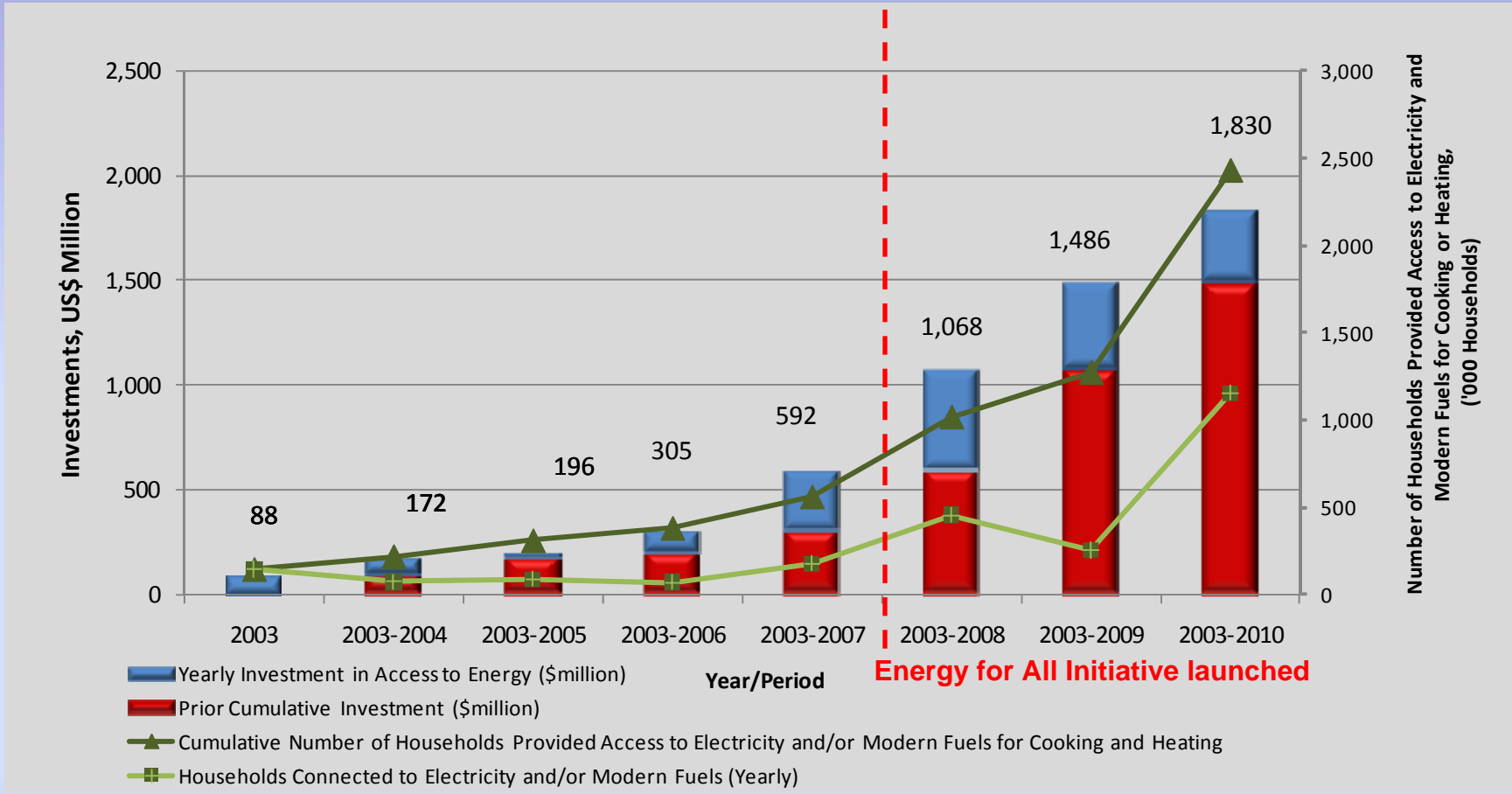
Internal: mainstream access to energy for the poor

External: pursue partnerships to tackle energy poverty



Photo credit: Abbie Trayler-Smith / Panos Pictures

ADB Investment in Energy Access (2003-2010 Q3)



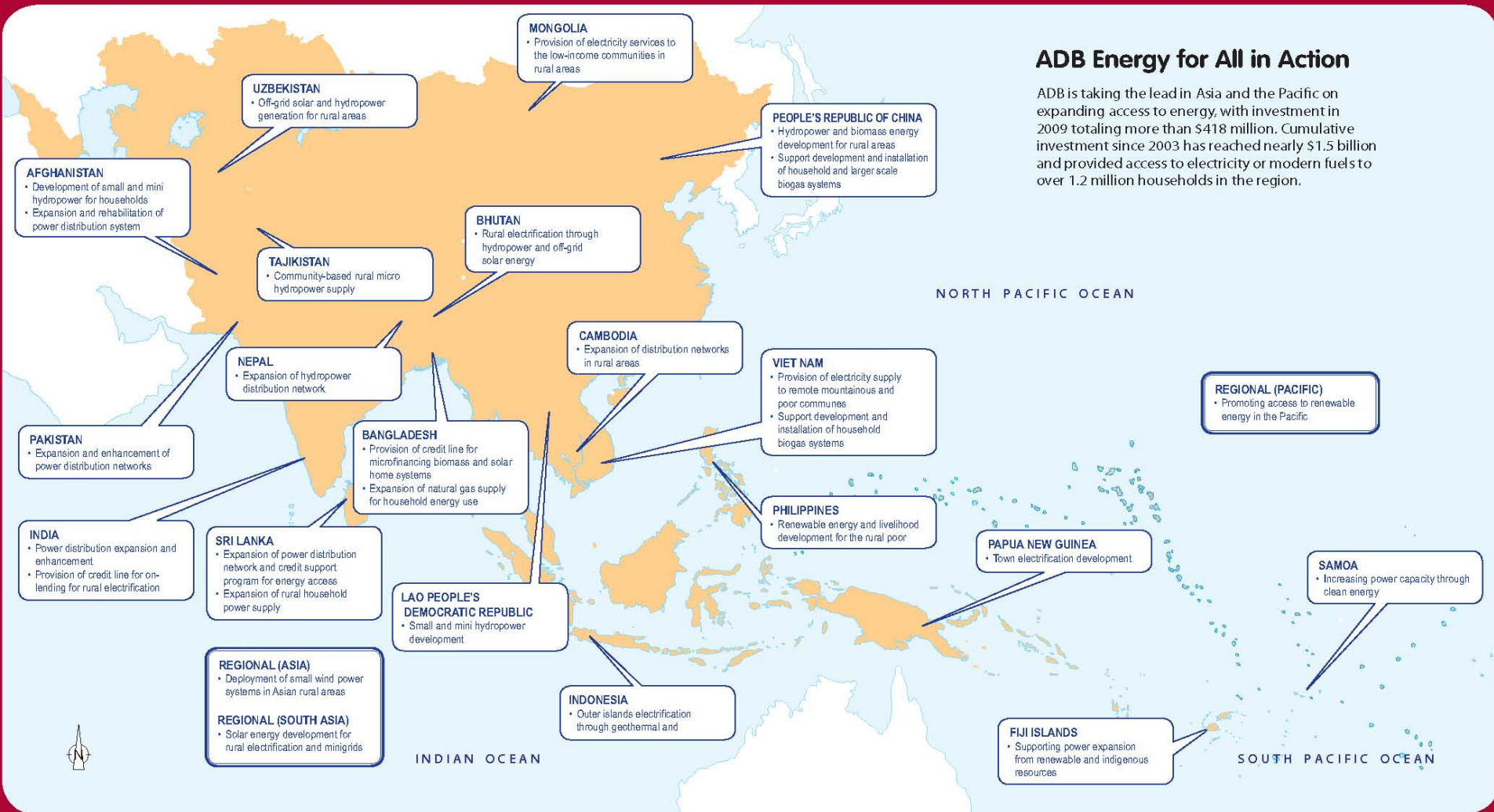
Energy for All Tools

- Support “champions” within ADB’s operations departments to develop “scaling up” access to energy projects
- Track and monitor ADB investment in access to energy
- Build capacity and share knowledge (internally and externally)
- Engage in policy dialogues with DMC governments
- Support multilateral initiatives (e.g., SREP)
- Develop strategic partnerships: Energy for All Partnership

Energy for All Projects

ADB Energy for All in Action

ADB is taking the lead in Asia and the Pacific on expanding access to energy, with investment in 2009 totaling more than \$418 million. Cumulative investment since 2003 has reached nearly \$1.5 billion and provided access to electricity or modern fuels to over 1.2 million households in the region.



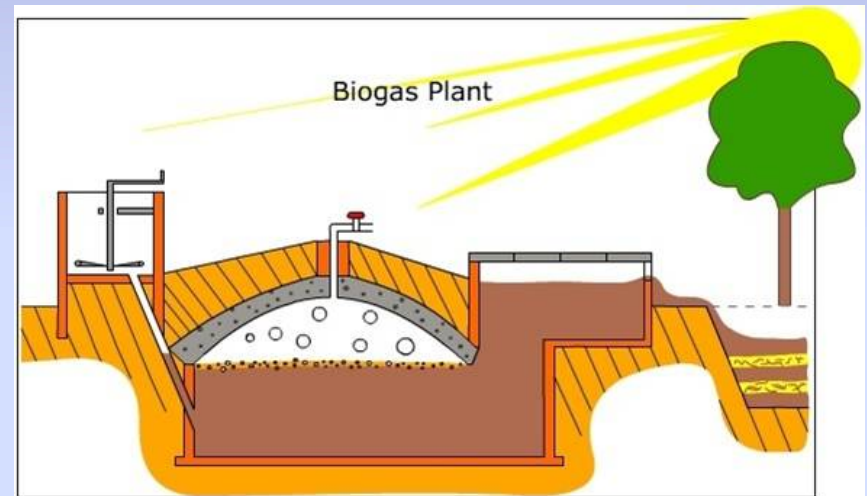
Energy Access Projects: LPG

- Sungas LPG Project (Distribution Network)
 - ADB is investing up to \$8 million for a 25 % stake in Sungas LLC.
 - Sungas will build LPG distribution centers in 6 Afghan cities.
 - 230,000 households will switch from solid fuels to LPG by 2019



Energy Access Projects: Biogas

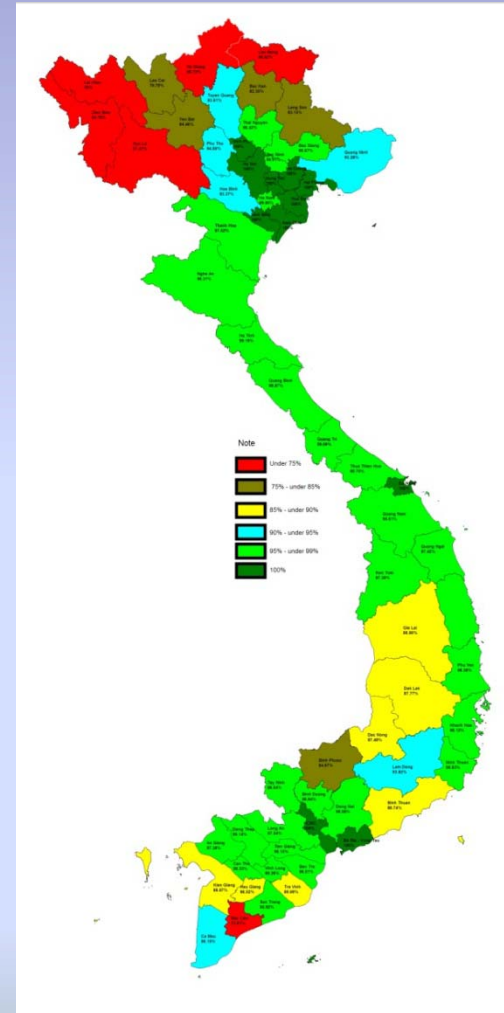
- VIE: \$19 m loan component for biogas
- Line of credit to local banks to finance up to 40,000 systems
- Output-based subsidy for 20,000 households
- Scaling up existing program
- Replicating in LAO, BHU



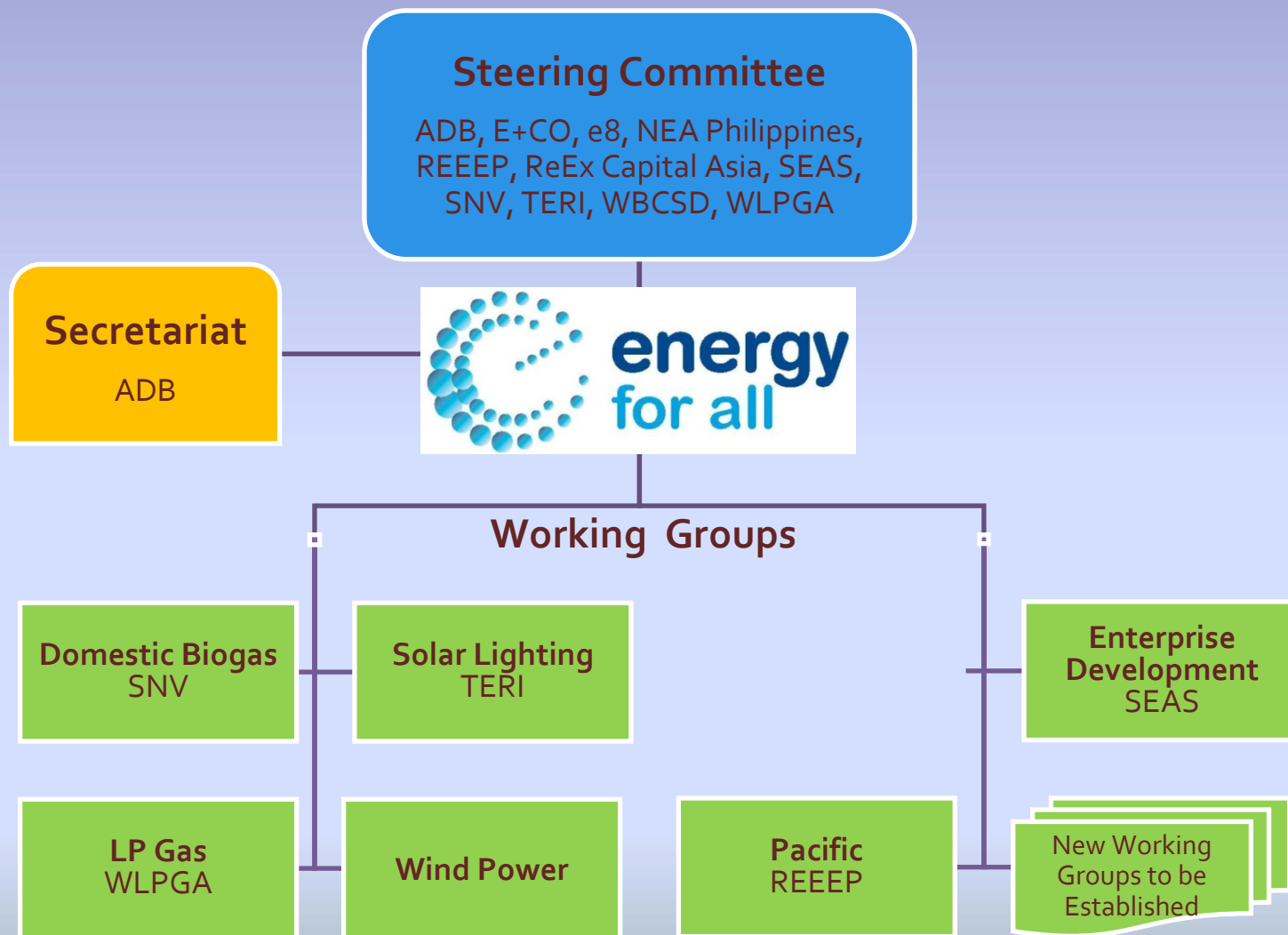
Source: SNV

Energy Access Projects: Rural Electrification

- VIE: \$151 m loan for RE development and network expansion
- Electrification of 1K villages through grid
- 5-10 mini-hydro subprojects in off-grid mountainous areas where grid-extension not feasible
- Connecting 105,000 HH



Energy for All Partnership



Objective: access to energy to 100 million people by 2015

Snapshot: Solar lighting

- “Lighting for All”
 - working with TERI, other stakeholders to develop regional off-grid lighting platform under Energy for All Partnership
 - focused on entrepreneurship, quality assurance, financing, policy advocacy, consumer awareness
 - Priority countries: Cambodia, Indonesia, Vietnam, India, Bangladesh , and/or Philippines
- Projects on the ground in India, Cambodia, Indonesia, Philippines

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